

Timmy Loos

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EDUCATION

University of Florida, Gainesville, FL

Aug 2023 - May 2027

Bachelors of Science in Computer Science & Bachelors of Arts in Economics

GPA: 3.6

Relevant Coursework: Data Structures and Algorithms, Discrete Structures, Programming 1&2

Awards: Dean's List, AI Fundamentals and Applications Certificate | **Societies:** ColorStack, ACM, SHPE, GatorAI

SKILLS

- **Languages:** Python, C++, SQL, JavaScript, TypeScript, HTML, CSS | **Additional:** Bilingual (English & Spanish)
- **Technologies:** SFML, PyTorch, Pygame, NumPy, Pandas, QuantStats, Keras, AWS, CDK, Git, OpenCV, React
- **Concepts:** Machine Learning, Functional Programming, NLP, Computer Vision, OOP, Cloud Computing, DSA

PROJECTS

General Nutritional Biases – Nutrition Dataset Visualizer | C++, SFML, Catch2

- Designed an interactive **GUI** using **C++20** and **SFML** to visualize and analyze U.S. Department of Health & Human Services Nutrition data.
- Developed and benchmarked three **hash map** implementations—**Basic**, **Linear Probing**, and **Ordered Map**—to evaluate **query efficiency**.
- Integrated **dropdown menus** and a **live progress bar** to support **CSV parsing** and real-time dataset interaction (~100k+ entries).

MLTrader | Python, PyTorch, NumPy, QuantStats

- Built an ML trading bot using **Lumibot** and **Alpaca API**, leveraging **FinBERT** for sentiment-based execution.
- **Reduced memory usage by 42.36%** by **implementing efficient chunked data processing**, eliminating out-of-memory crashes during large-scale backtesting.
- **Optimized transformer inference** to execute trading decisions to sub-**5ms**, improving real-time responsiveness.

Minesweeper | C++, SFML

- Developed a C++/SFML **graphical Minesweeper** game implementing core mechanics such as reveal, flag, win/loss.
- **Leveraged OOP principles** to design **modular**, **reusable**, and **scalable** game architecture.

EXPERIENCE - (Incoming SEO Tech Developer Intern, Summer 2025)

Private Math Tutor, Self-Employed, Remote

May 2024 - Present

- Designed tailored tutoring plans for students, focusing on calculus, algebra, and standardized test preparation.
- Assisted students in achieving improvements in **problem-solving efficiency and conceptual understanding**.

Service Lane Assistant, Jenkins KIA of Gainesville, Gainesville, Florida

Oct 2023 – May 2024

- **Optimized service lane efficiency by 30%** by streamlining vehicle intake and workflow automation using the company's **cloud-based software, CDK Global**, reducing wait times and enhancing service throughout.
- **Diagnosed and troubleshooted system inefficiencies**, identifying optimization opportunities that improved overall dealership service operations.
- **Developed data-driven solutions** to minimize manual entry errors by **25%**, improving the accuracy and reliability of vehicle service records within the database.

Assistant Manager, Poki Bowl Kendall, Miami, Florida

Nov 2022 – Aug 2023

- **Operated and managed the Clover POS system**, analyzing transaction data to identify peak sales hours, optimize staffing, and improve operational efficiency.
- **Implemented workflow optimizations** in the ordering and checkout process, reducing transaction times by **15%** and enhancing customer satisfaction.
- **Led a team of employees**, training staff on POS operations and customer engagement best practices to ensure consistency in service quality.